

Seminarium Studium Doktoranckiego NCBJ

Poniedziałek, 26 listopada, godzina 9:00

Sala 22 w NCBJ, Hoża 69

Speaker: Rahul Nair (Studium Doktoranckie NCBJ)

**Title: Study Of Thermalisation Of Quark Gluon Plasma Using Ultra
Relativistic Heavy Ion Collisions**

Abstract: In this talk, I will discuss the process of thermalisation of QGP formed at ultra relativistic heavy Ion Collisions. A brief overview of a heavy Ion Collision scenario will be presented. The hydrodynamical calculations together with experimental results points towards a rapid thermalisation of the QGP formed in such a collision. The anisotropic elliptic flow is an indicator of such a thermalisation in the medium. This fact will be discussed and demonstrated using results from Hydrodynamics and data from RHIC and ALICE. I will also explain how the dilepton yield can be used to estimate the thermalisation time of the QGP drop.